PTO/SB/01 (10-01)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
r the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

DECLARATION FOR UTILITY OR **DESIGN** PATENT APPLICATION (37 CFR 1.63)

Declaration Submitted with Initial Filing

Declaration Submitted after Initial OR Filing (surcharge (37 CFR 1.16 (e)) required)

porta to 2 democration of informa-	attion a	nees it contains a valid ONID Control Indilibe	и.
Attorney Docket Number		84892	
First Named Inventor		Stephen D. Russell et al.	
COMPLE	TE IF	KNOWN	
Application Number			
Filing Date			
Art Unit			
Examiner Name			

As the below named inventor, I hereby declare that:						
My residence, mailing address, and ci	itizenship are as stated belo	ow next to my name.				
I believe I am the original and first inve	entor of the subject matter v	which is claimed and for	which a patent is soug	ght on the invention entitled:		
Silicon-on-Sapphire Display	Apparatus and Metho	d of Fabricating Sa	me			
		·				
	(Title of the I	Invention)				
the specification of which	·	ŕ				
is attached hereto						
OR						
X was filed on (MM/DD/YYYY)	07/07/03	as United State	es Application Number	or PCT International		
<u> </u>						
Application Number 10/614,426 and was amended on (MM/DD/YYYY) (if applicable).						
		Ĺ				
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.						
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT						
international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant						
breederis rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant						
breederis rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.						
Prior Foreign Application Number(s)	Country	Foreign Filing Dat (MM/DD/YYYY)	te Priority Not Claimed	Certified Copy Attached? YES NO		
	<u> </u>	,				
Additional foreign application nul	mbers are listed on a suppl	emental priority data she	eet PTO/SB/02B attacl	hed hereto:		

PTO/SB/01 (10-01)

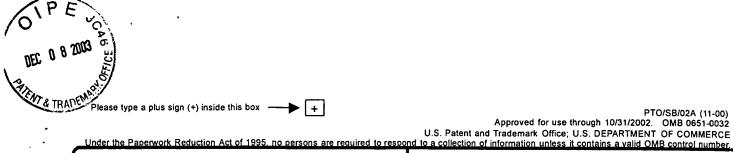
Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: X Customer Numb or Bar Code Lab			OR Corr	espondence address below	
Name					
Address		-			
City		State		ZIP	
Country	lephone			Fax	
I hereby declare that all statements made herein of my care believed to be true; and further that these statements made are punishable by fine or imprisonment, or both, u validity of the application or any patent issued thereon.	s were made with th	ne knowie	edge that willful false stat	ements and the like so	
NAME OF SOLE OR FIRST INVENTOR : [A petition h	as beer	n filed for this unsign	ed inventor	
Given Name (first and middle [if any]) Stephen D. Family Name or Surname Russell					
Inventor's Signature	r			Date	
Residence: City San Diego	State CA		Country USA	Citizenship USA	
Mailing Address 4561 Osprey Street					
_{City} San Diego	State CA		_{ZIP} 92107-4032	Country USA	
NAME OF SECOND INVENTOR:	A petition ha	s been t	filed for this unsigne	d inventor	
Given Name (first and middle [if any]) Randy L. Family Name or Surname Shimabukuro					
Inventor's Sam Ministre Date 10/20/2003					
Residence: City San Diego	State CA		Country USA	Citizenship USA	
Mailing Address 3098 Rue D'Orleans #302					
City San Diego	State CA		ZIP 92110	Country USA	
Additional inventors are being named on the 1_supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					



DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page₁___ of ___

Name of Additional Joint Inventor, if any:			☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])			Fa	mily Name or	Surname	
Bruce W.		Offe	ord			
Inventor's Signature			Date			
San Diego	CA		USA		USA	
Residence: City	State		Country		Citizenship	
Mailing Address 1881 Mission Cliff Drive						
Mailing Address						
San Diego City	CA State		92116 ZIP	USA Count	гу	
Name of Additional Joint Inventor, if a	ny:		A petition has I	been filed for th	nis unsigned inventor	
Given Name (first and middle [if any)		Family Name or Surname			
Inventor's Signature					Date	
Residence: City	State		Country		Citizenship	
Mailing Address						
Mailing Address						
City	State		ZIP	Cos	untry	
Name of Additional Joint Inventor, if any:			☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])			Family Name or Surname			
Inventor's Signature					Date	
Residence: City	State		Country		Citizenship	
Mailing Address						
Mailing Address						
City	State		ZIP		country	

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/01 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Attorney Docket Number 84892 DECLARATION FOR UTILITY OR Stephen D. Russell et al. First Named Inventor **DESIGN COMPLETE IF KNOWN** PATENT APPLICATION (37 CFR 1.63) Application Number Filing Date Declaration Declaration OR Submitted after Initial Submitted Art Unit Filing (surcharge with Initial (37 ČFR 1.16 (e)) Filing **Examiner Name** required)

		The second of th	A TOTAL AND A PART OF THE PART OF			
As the below named inventor, I hereby declare that:						
My residence, mailing address, and citizenship are as stated below next to my name.						
I believe I am the original and first inve	entor of the subject matter v	which is claimed and for v	vhich a patent is soug	ght on the invention entitled:		
Silicon-on-Sapphire Display Apparatus and Method of Fabricating Same						
the specification of which	(Title of the I	Invention)	•			
is attached hereto						
or was filed on (MM/DD/YYYY) as United States Application Number or PCT International						
Application Number	and was amend	led on (MM/DD/YYYY)		(if applicable).		
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by						
any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.						
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.						
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO		
Additional foreign application nur	mbers are listed on a suppl	emental priority data shee	et PTO/SB/02B attacl	hed hereto:		

PTO/SB/01 (10-01)

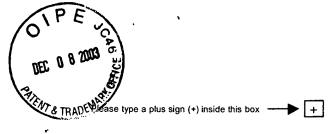
Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: X Customer Numbe or Bar Code Labe			OR Corr	espondence address below		
Name						
Address						
City		State		ZIP		
Country Tele	phone			Fax ·		
I hereby declare that all statements made herein of my ow are believed to be true; and further that these statements made are punishable by fine or imprisonment, or both, un- validity of the application or any patent issued thereon.	were made with tl	ne knowledge	e that willful false stat	ements and the like so		
NAME OF SOLE OR FIRST INVENTOR :	A petition h	as been file	ed for this unsign	ed inventor		
Given Name (first and middle [if any]) Stephen D. Family Name or Sumame Russell						
Inventor's Signature				Date		
Residence: City San Diego	State CA	Cou	untry USA	Citizenship USA		
Mailing Address 4561 Osprey Street						
_{City} San Diego	_{State} CA	ZIP	92107-4032	Country USA		
NAME OF SECOND INVENTOR:	A petition ha	s been filed	d for this unsigned	d inventor		
Given Name (first and middle [if any]) Randy L. Family Name or Sumame Shimabukuro						
Inventor's Signature	4	· · · · · · · · · · · · · · · · · · ·		Date		
Residence: City San Diego	State CA	Cou	untry USA	Citizenship USA		
Mailing Address 3098 Rue D'Orleans #302						
_{City} San Diego	State CA	ZIP	92110	Country USA		
1 Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.						



PTO/SB/02A (11-00)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page_{1___} of _1__

Name of Additional Joint Inventor, if any:			☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])		Family N	lame or S	Surname	
Bruce W.	M	Offc	ord			
Inventor's Signature W.	OM	<i>r</i> 	_{Date} 구-7-03			
San Diego	CA	ľ	USA		USA	
Residence: City	State		Country		Citizenship	
Mailing Address 1881 Mission Cliff Drive						
Mailing Address						
San Diego	CA		92116	USA		
City	State	1	ZIP	Countr	У	
Name of Additional Joint Inventor, if ar			A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])		Family Name or Surname			
Inventor's						
Signature	•				Date	
Residence: City	State		Country		Citizenship	
Mailing Address						
Mailing Address		<u> </u>				
Mailing Address						
Cit.	Charles		ZIP	C 011		
City	State		ZIP	Cou	ntry	
Name of Additional Joint Inventor, if ar	ny:		A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])		Family Name or Sumame				
Inventor's Signature					Date	
Residence: City	State		Country		Citizenship	
Mailing Address						
Mailing Address						
City	State		 ZIP	C	puntry	

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ASSIGNMENT

WHEREAS, we, Stephen D. Russell, Randy L. Shimabukuro, and Bruce W. Offord, of San Diego California, while employed by the Government of the United States, have invented certain new and useful improvements in:

Silicon-on-Sapphire Display Apparatus and Method of Fabricating Same

identified as Navy Case No. 84892, described in application for Lett on	
WHEREAS, the Government of the United States, represented by the Government, is desirous of acquiring an assignment of the invention herein granted; and	
WHEREAS, the conditions under which the invention was made are Executive Order 10096, to the entire right, title and interest therein, in	
WHEREAS, as to foreign rights, it is the policy of the Government to	obtain an option to exercise such rights;
NOW, THEREFORE, in consideration of the promises and other goo acknowledged, we hereby assign and transfer to the Government the the United States of America, its territories and possessions, and the any continuation, division or substitution thereof, and such Letters Pat which said Letters Patent may be granted, as fully and entirely as the been made.	entire right, title and interest in and to said invention within entire right, title and interest in and to said application and tent to be held by the Government to the end of the term for
We do hereby also grant unto the Government, the option to take the applications or other forms of protection thereon in all countries force or cause to be filed, applications for Letter Patent or other forms of p however that this grant of an option to take foreign rights in the inveshall have force and effect only as to such applications filed in foreign application for United States Letter Patent covering the invention, invention, whichever is later, and that all foreign rights exercised irrevocable, royalty-free license to the Government in any patent or of in any foreign country, including the power to issue sublicenses for unforeign policies of the Government.	ign to the United States in which the Government may file, rotection, without payment of any consideration; provided, ention, or applications or other forms of protection thereon, ign countries within eight months of the filing date of any or within eight months from the declassification of the under the option are left to us subject to a nonexclusive, other form of protection which may issue on said invention
We hereby further agree to make, execute, and deliver to the Government or other instruments that may be necessary in the prosecution of the application, or any application for reissue or extension of said I protecting the invention as may be requested, provided that any of Government.	application and of any continuation, division or substitution Letters Patent, and to assist the Government in every way in
IN TESTIMONY WHEREOF, we have set our hand and affixed our	seal.
Stephen D. Russell	Date
Randy L. Shimabukuro	Date /0/20/2003
Bruce W. Offord	Date
21400 11, O11016	

ASSIGNMENT

WHEREAS, we, Stephen D. Russell, Randy L. Shimabukuro, and Bruce W. Offord, of San Diego California, while employed by the Government of the United States, have invented certain new and useful improvements in:

Silicon-on-Sapphire Display Apparatus and Method of Fabricating Same

identified as Navy Case No. 84892, described in application for Leon 7/7	
WHEREAS, the Government of the United States, represented by Government, is desirous of acquiring an assignment of the invention, herein granted; and	
WHEREAS, the conditions under which the invention was made as Executive Order 10096, to the entire right, title and interest therein,	
WHEREAS, as to foreign rights, it is the policy of the Government	to obtain an option to exercise such rights;
NOW, THEREFORE, in consideration of the promises and other go acknowledged, we hereby assign and transfer to the Government the the United States of America, its territories and possessions, and the any continuation, division or substitution thereof, and such Letters P which said Letters Patent may be granted, as fully and entirely as the been made.	e entire right, title and interest in and to said invention within e entire right, title and interest in and to said application and atent to be held by the Government to the end of the term for
We do hereby also grant unto the Government, the option to take the applications or other forms of protection thereon in all countries for or cause to be filed, applications for Letter Patent or other forms of however that this grant of an option to take foreign rights in the invalid have force and effect only as to such applications filed in for application for United States Letter Patent covering the invention invention, whichever is later, and that all foreign rights exercised irrevocable, royalty-free license to the Government in any patent or in any foreign country, including the power to issue sublicenses for foreign policies of the Government.	reign to the United States in which the Government may file, is protection, without payment of any consideration; provided, wention, or applications or other forms of protection thereon, reign countries within eight months of the filing date of any in, or within eight months from the declassification of the launder the option are left to us subject to a nonexclusive, or other form of protection which may issue on said invention
We hereby further agree to make, execute, and deliver to the Gover or other instruments that may be necessary in the prosecution of the of the application, or any application for reissue or extension of said protecting the invention as may be requested, provided that any Government.	application and of any continuation, division or substitution Letters Patent, and to assist the Government in every way in
IN TESTIMONY WHEREOF, we have set our hand and affixed ou	r seal.
	Date
Stephen D. Russell	
Randy L. Shimabukuro	Date
Randy L. Shimadukuro	Data 7/7/03